

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A composition comprising the peptide:

~~Y-W-S-A₁-C-S-A₂-C-G-XZ~~(SEQ ID NO: 9)

wherein Y and Z comprise:

(a) N- and C- terminal ends of the peptide;

(b) amino acid chains having less than 6 amino acids; or

(c) chains of compounds which are not amino acids,

wherein A₁ and A₂ are amino acid sequences comprising 1 to 5 amino acids (SEQ ID NOS: 97-168) and further wherein the peptide is not ~~selected from the group consisting of one of the following sentences:~~

~~-W-S-P-C-S-V-T-C-G- (SEQ ID NO:2),~~

~~-W-S-S-C-S-V-T-C-G- (SEQ ID NO:3), and~~

~~-W-S-Q-C-S-V-T-C-G- (SEQ ID NO:4).~~

2. (Withdrawn) The peptide according to claim 1, wherein said A₁ is Pro or ~~-X₁-W-X₂-X₃-~~ (SEQ ID NO:5), X₁, X₂, and X₃ being chosen, independently of each other, from G, S and C, denoted SEQ ID NOS:50-59.

3. (Withdrawn) The peptide according to claim 2, wherein said A₁ is ~~-X₁-W-S-X₃-~~, denoted SEQ ID NOS:6 and 60-64.

4. (Withdrawn) The peptide according to claim 1, wherein said A₂ is selected from the group consisting of ~~-R-S-, -V-S-, and -V-T-~~, denoted SEQ ID NOS:65-88.

5. (Previously amended) The peptide according to claim 3, wherein said peptide comprises at least the following amino acid sequence:

~~-W-S-X₁-W-S-X₃-C-S-A₂-C-G-, denoted SEQ ID NOS:7 and 89-96, wherein, X₁ and X₃ are independently selected from G, S and C.~~

6. (Previously amended) The peptide according to claim 4, wherein said peptide comprises the following amino acid sequence:

-W-S-G-W-S-S-C-S-R-S-C-G- (SEQ ID NO:8).

7. Canceled

8. (Previously amended) A pharmaceutical composition comprising a peptide according to claim 1 and a pharmaceutically acceptable vehicle.

9. Canceled

10. Canceled

11. (Previously amended) A method for treating a pathological condition or trauma requiring the regeneration of nervous system cells, said method comprising administering to a patient with said pathological condition or trauma an effective amount of a peptide according to claim 1.

12. Canceled

13. (Previously amended) An additive for culturing nerve cells, comprising a peptide according to claim 1.

14. Canceled

15. Canceled

16. (Previously added) A peptide having at least the following amino acid sequence:

-W-S-G-W-S-S-C-S-R-S-C-G- (SEQ ID NO:8).

17. (Previously added) A pharmaceutical composition comprising a peptide according to claim 16 and a pharmaceutically acceptable vehicle.

18. Canceled

19. Canceled

20. (Previously added) A method for treating a pathological condition or trauma requiring the regeneration of nervous system cells, said method comprising administering to a patient with said pathological condition or trauma an effective amount of a peptide according to claim 16.

21. Canceled

22. (Previously added) An additive for culturing nerve cells, comprising a peptide according to claim 16.

23. Canceled

24. Canceled